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What is claimed is:

1. Apparatus for reproducing digital video signals from a magnetic tape, wherein a frame of digital video signals had been recorded in 2 m tracks (m is an integer greater than 1) when said magnetic tape was transported at a first speed, comprising: a pair of rotary heads having respectively different azimuth angles for scanning traces across said magnetic tape,

[said heads being constructed either as a double azimuth head assembly or as a pair of heads angularly separated by 180',]

said traces substantially coinciding with said tracks when said magnetic tape is transported at said first speed; and a tape [transport means]

transportor for transporting said magnetic tape at a second speed equal to $(m \times n \pm 1)$ times said first speed, where n is an integer other than zero.

and 1 has a predetermined value depending upon the configuration of the heads

[1=0.5 when said pair of heads comprise said double azimuth head assembly and 1=0.25 when said heads are angularly separated by 180°].

2. The apparatus of claim 1 wherein n is a positive number when said tape <u>transportor</u> [transport means] transports said

magnetic tape in a forward direction and n is a negative number when said tape transportor

[transport means] transports said magnetic tape in a reverse direction.

3. The apparatus of claim 1 wherein said digital video signals are NTSC video signals and m=5.

4. The apparatus of claim 1 wherein said digital video signals are PAL video signals and m=6.

5. The apparatus of claim 1 wherein n is an odd integer [when] and 1=0.25.

6. The apparatus of claim 1 wherein the frame of digital video signals recorded in said 2 m tracks are orthogonally transformed video signals encoded in variable length code.

7. The apparatus of claim 6 wherein said variable length code is a two-dimension Huffman code.

8. The apparatus of claim 6 wherein the orthogonally transformed video signals of a frame are shuffled.

9. Apparatus for reproducing digital video signals from a magnetic tape, wherein a frame of digital video signals had been recorded in 2 m tracks (m is an integer greater than 1) when said magnetic tape was transported at a first speed, each frame having been divided into blocks of picture elements [and the blocks of a frame having been gardened to blocks of a frame having been having been gardened to blocks of a frame having been gardened to blo

[and the blocks of a liam with respect recorded in shuffled form with respect to each other],

said apparatus exhibiting a data read-out

rate and comprising: a pair of rotary heads angularly separated from each other by 180° and admitting of respectively different azimuth angles; and tape transport means for transporting said plagnetic tape at a second speed equal to $(m \times n \pm 1)$ times said first speed, where n is an odd integer, 1=0.25 when said apparatus exhibits a flata read-out rate determined to be at least 50% and 1=0.125 when said apparatus exhibits a data read-out rate determined to be less than 50%.

10. The apparatus of claim 9 wherein n is a positive number when said tape transport means transports said magnetic tape in a forward direction and n is a negative number when said tape transport means transports said

magnetic tape in a reverse direction.

11. The apparatus of claim 9 wherein said digital video signals are NTSC signals and m=5.

12. The apparatus of claim 9 wherein said digital

video signals are PAL signals and m=6.

13. The apparatus of claim 9 wherein the frame of digital video signals recorded in said 2 m tracks are orthogonally transformed video signals encoded in variable/length code.

14. The apparatus of claim 13 wherein said variable length code is a two-dimension Huffman code.

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15. Apparatus for reproducing digital video signals from a magnetic tape, wherein a frame of digital video signals had been recorded in 2 m tracks (m is an integer greater than 1) when said magnetic tape was transported at a recording speed, each frame having been divided into blocks of picture elements

[and the blocks of a frame having been recorded in shuffled form with respect to each other], said apparatus exhibiting a data read-out rate and comprising: a pair of rotary magnetic hards

[disposed in a double azimuth head assembly and admitting of! having respectively different aximuth angles; and a tape

transportor [transport means]

for transporting said magnetic tape at a fast playback speed equal to (m×n±1) times said recording speed, where n is an integer other than zero.

and 1 is a value depending upon a data read-out rate

[1=0.5 when said apparatus exhibits a data read-out rate determined to be at least 50% and 1=0.25 when said apparatus exhibits data read-out rate determined to be less than 50%].

16. The apparatus of claim 15 wherein n is a positive number when said tape <u>transportor</u> [transport means] transports said magnetic tape in a forward direction and n is a negative number when said <u>tape transportor</u> [transport means] transports said magnetic tape in a reverse direction.

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17. The apparatus of claim 15 wherein said digital video signals are NTSC signals and m=5.

18. The apparatus of claim 15 wherein said digital

video signals are PAL signals and m=6.

19. The apparatus of claim 15 wherein the frame of digital video signals recorded in said 2 m tracks are orthogonally transformed video signals encoded in variable length code.

20. The apparatus of claim 19 wherein said variable length code is a two-dimension Huffman code.